(19) World Intellectual Property Organization

(43) International Publication Date

23 December 2004 (23.12.2004)

International Bureau





PCT

GB

(10) International Publication Number WO 2004/111001 A1

(51) International Patent Classification⁷: C07D 211/46, A61K 31/445, A61P 3/10, 35/00

(21) International Application Number:

PCT/GB2004/002450

(22) International Filing Date: 9 June 2004 (09.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 0313677.7 13 June 2003 (13.06.2003)

- (71) Applicant (for all designated States except US): OX-FORD GLYCOSCIENCES (UK) LTD [GB/GB]; 208 Bath Road, Slough, Berkshire SL1 3WE (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): ORCHARD, Michael, Glen [GB/GB]; Celltech R & D Limited, 208 Bath Road, Slough, Berkshire SL1 3WE (GB). SCOPES, David, Ian, Carter [GB/GB]; Celltech R & D Limited, 208 Bath Road, Slough, Berkshire SL1 3WE (GB).
- (74) Agent: THOMPSON, John; Celltech R & D limited, 208 Bath Road, Slough, Berkshire SL1 3WE (GB).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: 2-HYDROXYMETHYL-3,4,5-TRIHYDROXY-1-(4-PENTLYOXYBENZYL) PIPERIDINE AS GLUCOSYLCE-RAMIDE SYNTHASE (GCS)

(57) Abstract: The compound 3,4,5-piperidinetriol, 2-(hydroxymethyl)-1-[(4-(pentyloxy)phenyl)methyl]-, (2S,3S,4R,5S), or a pharmaceutically acceptable salt or prodrug thereof, is useful as an inhibitor of glucosylceramide synthase.

